

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1-23. (Canceled)

24. (New) An electric machine, comprising:

a magnetically inducible core;

a first plurality of printed circuit boards disposed at a first end of the magnetically inducible core, wherein each of the first plurality of printed circuit boards is substantially parallel with respect to each other and comprises a substantially similar circuit design;

a second plurality of printed circuit boards disposed at a second end of the magnetically inducible core, wherein each of the second plurality of printed circuit boards is substantially parallel with respect to each other and comprises a substantially similar circuit design;

a plurality of electrical current conductors, wherein each of the plurality of electrical current conductors extends through a respective bore within the magnetically inducible core such that the first plurality of printed circuit boards are electrically connected with the second plurality of circuit boards; and

wherein each electrical current conductor is electrically insulated from the magnetically inducible core.

25. (New) The machine of claim 24, wherein each of the first plurality of printed circuit boards is rotationally offset from each other by about 120 degrees.

26. (New) The machine of claim 24, where each of the second plurality of printed circuit boards is rotationally offset from each other by about 120 degrees.

27. (New) The machine of claim 24:

wherein a first printed circuit board of the first plurality of printed circuit boards is electrically connected to a first printed circuit board of the second plurality of printed circuit boards;

wherein a second printed circuit board of the first plurality of circuit boards is electrically connected to a second printed circuit board of the second plurality of printed circuit boards;

wherein a third printed circuit board of the first plurality of circuit boards is electrically connected to a third printed circuit board of the second plurality of printed circuit boards.

28. (New) The machine of claim 24, wherein the plurality of electrical current conductors form a single continuous electrically conductive path through the electric machine.

29. (New) The machine of claim 24, wherein the plurality of electrical current conductors form multiple electrically conductive paths through the electric machine.

30. (New) The machine of claim 29, wherein the multiple electrically conductive paths are electrically connected to a multi-phase electrical power supply.

31. (New) A method of manufacturing an electric machine, the method comprising:

disposing a first plurality of printed circuit boards at a first end of a magnetically inducible core, the first plurality of printed circuit boards being substantially parallel with respect to each other and having substantially similar circuit design;

disposing a second plurality of printed circuit boards at a second end of a magnetically inducible core, the second plurality of printed circuit boards being substantially parallel with respect to each other and having substantially similar circuit design;

electrically connecting the first plurality of printed circuit boards to the second plurality of printed circuit boards with a plurality of electrical current connectors, each of the plurality of electrical current connectors being electrically insulated and extending through a respective bore within the magnetically inducible core.